PATENT

Atty Docket No.: 10010944-2 App. Ser. No.: 10/696,837

IN THE CLAIMS:

Please find a listing of the claims below, with the statuses of the claims shown in parentheses. This listing will replace all prior versions, and listings, of claims in the present application.

Claims 1 - 7 (Canceled)

- 8. [Original] A molecular system configured between a pair of electrodes, said molecular system including at least one organic non-polymeric molecule that changes color when oxidized or reduced by an electric current.
- 9. [Original] The molecular system of Claim 8 wherein said organic non-polymeric molecule comprises a substituted tetrazole.
- 10. [Original] The molecular system of Claim 9 wherein said substituted tetrazole is represented by the formula

$$\begin{array}{c} R_4 \\ \\ R_3 \\ \\ N \end{array}$$

$$N - R_1$$

where R_1 , R_2 , R_3 , and R_4 are independently H, alkyls, or aryls and the ring carbon is in the 3-position.

PATENT

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11. [Original] The molecular system of Claim 10 wherein any two of R_1 , R_2 , R_3 , and R_4 are alkyls and/or aryls, and the remainder hydrogen.

- 12. [Original] The molecular system of Claim 10 wherein the ring carbon is in the 2-position.
- 13. [Original] The molecular system of Claim 10 wherein said molecular system comprises:

wherein (I) is purple and has a $\Delta E_{HOMO/LUMO} = 2$ eV and wherein (II) is colorless and has a $\Delta E_{HOMO/LUMO} > 3.5$ eV.

14. [Original] The molecular system of Claim 10 wherein said molecular system comprises:

PATENT

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Blue $\Delta E (HOMO/LUMO) = 1.85 \text{ eV}$

Magenta $\Delta E (HOMO/LUMO) = 2.35 eV$

wherein (III) is blue and as a $\Delta E_{HOMO/LUMO} = 1.85$ eV, wherein (IV) is magenta and has a $\Delta E_{HOMO/LUMO} = 2.35$ eV, and wherein (V) is colorless and has a $\Delta E_{HOMO/LUMO} > 3.5$ eV.